MAIRON

OCTOBER 1, 1923

Issued Weekly

PRICE 10 CENTS



VOLUME

SPECIAL FEATURES

NUMBER

ARMY AND NAVY ENTRIES FOR PULITZER RACE BIOGRAPHIC NOTES OF ARMY AND NAVY ENTRANTS NEW WRIGHT T3 AVIATION ENGINE HUFF DALAND ADVANCED TRAINING PLANE

> THE GARDNER, MOFFAT CO., INC. HIGHLAND, N. Y. 225 FOURTH AVENUE, NEW YORK

Entered as Second-Class Matter, Nov. 22, 1920, at the Post Office at Highland, N. Y.

LIGHTNESS

THE weight per H.P. of the Wright T-3 I engine is better than guaranteed for any other water cooled engine being built. This low weight to power ratio improves speed, climb, ceiling and maneuverability. Greater useful load can be carried for a iven wing loading.

Thus this Corporation continues to lead the way in refinements of correct aeronautical engineering practice that have most to do with progress in the aero-

nautical field.





WRIGH ENGINES

Record-Breakers-ALL

Pulitzer Trophy Race -- won 1923

Curtiss Marine Trophy Race -won by

1922 Pulitzer Trophy Race - won by Lieutenant Maughan, pilot, average 206 miles per hour.

Curtiss Marine Trophy Race -won by Lieutenant Gorton, pilot, average 112 miles per hour.







VOUGHT FOR SPOTTING PLANES ON BOARD HAS PROCHESONOR

The Eyes of the Navy's Catapult-Equipped Battleships and New Scout Cruisers

Chance Vought Corporation

Long Island City, New York

OCTOBER 1, 1923

AVIATION

World's Asroinna Records Recomined by the Editorials to Loren Brade for Leternstown! Air Baren Country of Redressview Laboratories Day years and Navy Entrem on the Pullsteen Race 400

While Hodel TJ Aviston Engine 450 U. 5 Array and Newy Air Forces 450

THE CARDNER, MOFFAT COMPANY, Inc., Publishers HIGHLAND, N. Y. Inned core Mendes. Forms close to door previously compount prior o'est deliver per year, Bingle cryper ten treats. County, the deliver. Frenge, my deliver a year. Grypryke 1823, by the Gerdner, Meglel Company, Inc.

THOMAS-MORSE AIRCRAFT CORPORATION CONTRACTORS TO U. S. GOVERNMENT

w D Merre Co. oz Norsoce

AVIATION

OCTOBER 1, 1923

no use to the maximum on accompatival inferred. As marks

secur and public excepted men, who have made this presument

Service Shina Versus Racera

A FTER the St Laun meet it will be advised int in and Army and the Novy to take stock of the accomplated

A year has shepted state the rescale were made in Detroit

Vegezza E. Cues Ferren P. Wanne

is done, a faint failing of security will be created with the of ordered. The Arest, last year, freely spent recent to develop at record-breakage appointes. This year the Norw

Airship Operation A "has a received in peace which will make her a factor

in the commercial avenues of our manifes. As a recess of alone, and is destined to have a wide uphers of usefulness." to be innected in this bounch of wonton. Official data for-

Production Control

economy

paidto exactness in every

engineering detail and

of specialized aircraft

adapted to the exacting

insures the utmost in

precision, speed and

material specification.

airolanes in quantity. such as is called for in the production by this The Martin production company of thirty-cight control system is unique all-metal M01 machines for the Navy, it is very Developed during years essential that scientific production control building, it has been methods be utilized. Not only must the time needs of such work I

In the manufacture of

element he taken into consideration, but most careful attention must be

THE GLENN L. MARTIN COMPANY

Railders of Quality Aircraft since 1905

St. Louis Ready for International Air Races Ninety-one Entries Received from Army, Navy, Air Mail And Commercial Aviation Everything is in weathern for what promises to be the

yes, 6 so, from the city, has been completely graded, leveled and cowed down with ow. The mints who have already as perform more for 25,000 autemphiles forced in Meachans Press Strad, Convenience Building have been strainly sudes,

condenses . The New her shapped a mention ashibit, showing

Hook W. Rebertson, received to Previous Housed E. Meet Well Advertised

one of the proposed courts on the neutron. The Clab but

September 34, 1886,

My benefited above our year performed to extend

trees around of indicated defining. Here is now as given the produced and the indicated and the indicated and the indicated and indicated and

satron fallows Civales L. Power, Macon, Ma

(acuber 3, 1993)

all places reduced in the various relations have been affolded that hanny spect. Two additional citizen have been re-

and in the "Yn-to-St. Lenis" man while assertions is had

The last been drawn up with great care in order to manuscrip-As Jones to the floor removed and the rebbe, and at the Juley, argree, amount towers, and other officials with the

not the regres will be in energy or the very small at the suces, and of it is come and the Field and flying per the regres with Major Scanlot, he said the Field was not of the largest and best located he had ever soon. The

New Ondo-St. Louis-Stone Entries. The following additional entries in the On-to-St. Long race. The following additional collision in the Un-to-St. Lotte Wee, which choosed Stope 50, brought their number to twenty. Nearly next member of the country in represented. The last of time

"On to St. Lonis" Roce Over from Sept 20 to 20, 2003, to continu priots only.

two raths for raying conditions. In addition, two prices will

Closed-Marshall Avenue, from St. Churles to Notero.

truster, in he beared as the Januar Chander of Conserver

Clearer of County Highways

Special traffic seden here been insued by the St. Lorar

William A. Bunker, Oktoalgov, Ohlo.

S. B. Ferms, M. D. Charago, H. W. Hunter S. Eupl, Enkissers, Md.

Sough any over Conserve Base From Prices Based to town of Pleriment from 18 a. m. to 5 p. m.; contibuoud outr over Brokeston Station Read from Pleriment to Swore Sattle from

Program and Entries for St. Louis Air Meet

The consumer number of points to be availed on average speed per hour is 300. A place enhance the flight at an enempy speed of 150 mi/hz, wall be availed 100 points, and

In order that minia fluor from distances greater then 500 on clarged tops, the fullyware rough will be awarded on Lotal

Observed by accorded 16 words for each additional 100 Please well be accarded 10 younds for each nontinual DA-miles (above the 000 miles specified). If the distance covered ware passes and 000 mines specimens. In the deviance overeid by a consecuent fulfit between two of the recognized (000 mile) distances, he shall be allested the distance nearest to which his actual fiving distance fulfi.

A maximum of 200 points will be awarded to the plane

Edonously 7 Achies

10 A 10 4 phase

27 Paule R., Dietertens

1 Sprack R., Dietertens

1 Sprack R. Die

retered and to depend the secured of a splitcher for the papose. The destince of the Contest Committee will be fast. 100 McContest (95 III active), three times around a cloud correct of 50 McContester (50 IV active), starting at 5t. Lung 19th, these meth as the first turning plots, thesis used, 19th of the contest of the first turning plots, thesis used, 19th of the second turning plots, and within 5 th. Lung

October 1, 1828

Telescie AP, & Suy Co. Studies OH & Bell Co.

Burf prins will be \$10.000 in cash. Fourth prins will be \$10.000 in cash. Fourth prins will be \$10.000 in cash. In case of a to the water will be \$10.000 in cash. In case of a to the water will be \$10.000 in cash. Fourth prins will be \$10.000 in cash. Fourth p

Flying Clab of St. Loois Trephy
Mesley. Oz. 1, 1920
The Trephy, denated by the Flying Clab of St. Loois
In respected for by amphases of 00 kp; or less, as
become the permanent of permanent of the extrast of the

(a) In order to demandate subtreed amonth arounds and (b) Engine round the 90 by or hot. (Effectiveness on a to the Designature Demands of the U S Are Service (c) All surplements Demands of the U S Are Service (c) All surplements must means a solid hand of 10 th, are (c) All surplements must means a solid hand of 10 th, are passengers, right sufficient builds, if successory, is being to supplements of the Commission of the Commission of the Service loss of passengers, as suffer to elements hand in this reproduction of passengers, as suffer to elements hand in this reprotude of the Commission of Service (appendix to the Service (d) Decend commission and designs of spins to be seen for the Commission of the Commission of the Service of the Service suffer sufficiency of the Service of the Se

with executed before a noticey scalds. The Contact Committee

First pears \$500, second pears \$500, first prins \$200 Liberty Engine Builders' Traphy Meeler, Oct. 1, 1923

shall be perpetual and competed for assaulty by observation type (tra-phere) simplasme we flying books.

CONDITIONS OF CONTEST.

(a) Proton of addity if as backed for start of two (b) Accepted greater than \$0 mps. local to the contest of the cont

to any fermula using as a basis the visits lead displacement the 400 kp. Leberty engine, and $\sim 10^{-10}$ cube inch displacement of nature mod \times 35 $_{\odot}$ (600 5). The stringuishest and payabaste may be included in Net- The entirepitalness and payabaste may be included in

the "rested bod?", however, first metrosomic, gas, set in metric free sequence on evolution!. Books inside, gans and subject for the consist. Our first first particle and and supply the coulest. Comparison with a settlement group and supply the Coulest Comparison with a settlement group interaction. It is a greatly excepted before a netwary publish that Coulest Counsilies reserves the right to chank this assumentation of any section related and to designed the section of the coulest Counsilies. The coulest great the counsilies of any published the country of the country of the country of any latest designation of the suppless. the Country Committee only into the supplement of the angiests, the Country Committee

git to elect the memorement of any oughts only inch displantment ENTRIES FOR LIBERTY ENGINE SUILDERS? 7

Fried States, U.S.N. Certified States B. C. Alben, U.S.N. Certified States B. C. Alben, U.S.N. Certified States B. S. M. Central States S. M. Central States

CD12 400 Zeroen of Arman on 100 Zeroen of Arman of 100 Zeroen of 100 Zeroe



Bellines CF calm plane (90 by Americ) entered in the Assatus Country Club of Detroit role



U. S. Army-Fabber T2 (400 to, Liberty), entered in the Merchant Enclance Trasta rece

'Two tester almost

ma.	1.87	TATION		Ordered to the	O-tober 1, 2903		HOITAL	TION	
16	A 7 A	ATION	TION October 1, 1833			ENTRIES FOR MUI	VIRILL MODEL TROPHY		
	ENTRIES FOR COUNTRY	CLUB OF DETROIT THE	OPRIT		Poles	Pleas No.	Polisi	Phone	
let	Plane No.		No.	Entropy	Walter L. Trook	Model 1	G Cornell Striking	Model Model	
taylor Shermerg, James	Cartes Onele 1	2 Cortino GX5		Certise En. Co.	Prof. Staffer Smith	Model 2		Model	
sope B. Peet pry G. Smith						Model 3		Model Model	
rry 6 South		12 Agreco	90	Bellanca Arplane Co	Dictions Pend	2 35odels 4-5-1 Model 2			
be L. Darus	Leplan 3-water 55	05 Elispero-Coses 06 World "22"	210	Seems Pipers	Joseph J. Leens Ecoupy J. Dorberty	Model 7 3 Models 9-9-			
trold Harris bound T. Allen		UK Wright "E"	390	Haff, Daland Aree Curp.	Espain J. Dockerty	3 Models 9-9-1 Model 33		Model	
burnd T. Allen web H. Echartone		27 Le Klone 20 Hispono Onica	190	Rederture Albertain Com-		Model 11 Model 12		Model	
					Augustin Jenes John H. Caldwell	Model 32 Model 34	Charles F. Evine Peter Nelson	Model Model	
ny Wes. III Embertain. Viry Hatten.	Laint Senting 6	63. Cartin OXS	350	Sterling Old & Not Co.	John H. Caldwell Cod Bossonwith	Model 34 Model 15	Peter Nelson Prof. Asthury	Model Model	
17 DIRECT	ARRO Desix.	. Carrier		Section 40	Clearl W. Bassalers	20100 - 26	Post Mathing Post Oldradomb		
						Model 17			
erves the right to use the	o cylinder displacement figures e Engineering Decimen, McCool-				Longweise Gerwi	Model 19	William Schweitzer	Model	
	contest Correlator will be find		te resi	to the estructs of the vis-					
					5 Soving formula, using a	on a barry the color such deple-	ce- however, the design for the ne-	old may be sitteded from or	
	des)-ext tenes around a closed		amend Ed-	Courses	ment for the 400 kp Lebert	dy engine	courses than the own. He sh	all be the beater or the ev-	
						placement of ougste or engines on	model with the following every not once and remetter shall, also	places property, the con-	
					100024 × reloc lesh dap	Automorat or engine or ethanic in	not rege and propeller shaft; also no may be used in the constru	when of the model may be	
on rest, pursues over capture	ov ballon located approximately 1 altitude, and continuing to \$9	y and of second pines the	a second high	thest, etc., provided the past	Y 2 or "contest lead."		chared from outrade regrees.		
miles card at about 1500 ft.	. altitude, and continuing to ce	o not disquidity see	, the price :	mercy will be paid to the . The winner of the raw	THETANCE:				
NUMBER OF CONTESTANT	_					relies)-six times around a elec-		Air Moil Trophy	
MINISTER OF CONTESTANT MINISTER STANDER FORF	5	figure of morti based or	en the fell-	of App learning on a				Ont 3, 1923	
								Trophy, donated by the Det	
ASH PRIZZS		$\times HFH = F$	Figure of ar	nent, where W - would of					
First print 5509, second po	rice 4500, third price 5000				5 miles east at about now	5 miles ent at about 3500 ft. siluteds, continuent ent to St. point for commity loss Field.			
		lond prescriptre, sea re-	cP m ben	repower credited contrates,	NUMBER OF CONTESTAL		CONDITIONS OF CONTEST		
	lab of Detroit Trephy	and HPH - name	repend to ex-	The hightpower credited	NUMBER OF CONTESTAL	NTS	(a) Faster of safety of wa	ing ordinic to loaded for stori	
Tumber, 1	Oct 2 (HZ)	been these set or or	or then way	pod as indicated in The 4.	Manager master Four		race 4 low mendence condition (b) Air raced creater than	A, if high tacklence commune	
View Trender, donated by :	the Aviation Country Club of								
				at is list of each names	CASH PHILIPAR.	nd years \$700, therd prov \$300			
						l Model Trephy			
			First			Ian. Cot. 2, 1935			
								rylenes during the more will or	
(b) Average are speed gree	ster than 50 m.p.b. in race		6000, NORT	nd pense 6300, third pense	The Trophy, ditheren sy	y B. V. Muhthall, vice-president Association, shall be perpetual a	of pilot and gas, oil and water	tofficient for the race. S. Air Mad Service are elso	
(a) France of rollely on war	ing reliate as loaded for start of on, 6 high mondress condition.	6100			the National Association of	Anodistics, shall be perpetail a cr members of the Januar Phys	and (a) Only pilots of the U viii for this race and even one ver	of Air state books for his	
			an \$500, non	word powe \$390, flord prox	Lorger of the National As	/ Figure 1 at Land 1 at La			
			Acres of	f St. Leuis Trooby				not ecouply with the requirem	
			Tomby, Oct. 3					lie)—ax tose amend a d	
			A by the F	Merchanta Evchange of St.					
Sontset Committee that all o	contratante carry balled in her	" Long, shell be rempr	eted for br	by large reparate sarphine 2 2000 fb or over, and stall		flowed three trade and will be fine made in any one of the the	At- Field and north to first pylon.	y then routhwest to record pr	
of Lennesdan to come " " "	discipate heavyl in this respect, obviously open cockputs he cay	- republic of company a y	pay load of	/ 2000 fb of over, and man	NUMBER OF ENTRES	fine made in any can or on on-		arid.	
		become the personnel					WINNER		
			CONDITIONS OF CONTEST			allowed to reter some than th		gulpt who ben completed the	
	August to an annual and		ATEST:	with the second state of the second	models.				
				reliale on headed for stot of 6 high condence condition		to shall be the evener and beidder		Twenty will be awayfed to	
250 inhunctors (155.34 ma)	les)fre hous eround a closed							s MAA represented by the	
		at (c) Capable of care-	veng a pay	find of 2,000 fit or over, it first ments (The Course				.ney pood to the retriets o'	
Field and theree name to to	first polos, thence southwest to	" a maximum rianh of 1"	.50 ft. the	first minute (The Corner		are not been drayunkfied-			
record pulse, throny rare pass	mang ever reptyre balloon located if aheat 1500 ff, alletade contra-							45	
approximately it make each at tung each to lift, Longs Field	. about 1300 ft surran contra		Asna can P	nest there conditions.)	No conferient may take	past in the contest for the Tree	pky Measures sucher Four		
CA) WINNER (Light Commence	ad Boord)	(4) All corplemes we	di cory or	the fellowing "control lead" i gas, aid and water cultivisti	colon he is a needler of	f the Januar Physica Lengus of	No. CASH PRIZES		
not start place shall be the v	print who has completed the ful-	and in information error on	All lead y	gas, oil and ware manners	National Associates Associated	ocation, and in good stending and business of the model submittee	tel; Fast prior \$500, second pa	or organ string major stoop	
or and press		. 100 000 100	A. A.	and the decision of the con-	DUIT AND BY ON SWING PA	A REGION OF THE PARTY OF	to, your pric come or pe	the coast result have done	
82	NTRIES FOR NEECHANES	EXCHANGE OF ST. LO.	CES THOP	anx		ENTRIES FOR "DETRO	OF NEWS" AIR MAIL TROPHT		
Dist	Pleas No	fo Enries	Zig.	Entrante	Pair	No.			
A. M. A. Sebur, U.S.N.				Dureny of Acressors	Ernet M. Albert, A.M.S.	1.5	Randolph G. Page, A.M.S.		
						17	E. H. Wandow, A.M.S. W. F. Bixandeld, A.M.S.		
	Brignet 1600 G	42 Stockeri Liberty	400		Joseph H. Kright, A.M.S.	35	W. P. Elementers, A.M.S.		
	Arion Politics TE 45 Martin Bomber 4	40 Liberty 44 R Liberty	400 mm	U S Army Air Server	Barriel T Lewis, A.M.S.	19	R H His, AMS W D Welson, AMS		
	Martin Bonder 6	44 B Liberty 45 B Liberty	690 es.	U. S. Army Air Second	Proce F. Moore, A.M.S.				
A M G Crocker, A.S. A M L Greege, A.S.						22	Wester E. Santh, A.M.S.		
A H G Crocker, A.S. A H L Greepe, A.S. A L. P. Arcold, A.S. A L. Warle, A.S.									
A H G Crocker, A.B. A H L Greege, A.S.		et 2 Liberty et 2 Liberty	490 na.	D S Army Air Server D S Army Air Server D S Nove	7 runk R. Yager, A.M.S.		Wester D. Smith, Make		

All places in that were east here the ground under con-power only, treet not discount any part of the engagement of The Politice Toughts, denoted by Helph Politics, Joseph Sorts and your large preser builder component attacked or of



openion of Contest Competter, is not a message to the color

Oct 1 - 3, 1923

I. T. W. Hackborn, A.S. R Dress, A.S.

October 1, 1103

Burt E. Sheel, A.S.

ENTRIES FOR JOHN L. MITCHELL THOPHY

Of first place shall be the paint who has completed the fall

John J. Mitchell Teacher

The Trooby, denoted by Brig Gra, William Minkell. Austral Chief of Air Service, is nemory of his houther

Vauville Gliding Meet

the French Barden glider, put up a very creditable show in common, duration and slating. It was furturate that the a facily walk boack on which guiders could and one many bedings. However, as this cit! was it a governed earth and The Perceint markons, which was experted as a light plane.

competition in a glair, performing very creatable, in any be not from the performance tables which dislice . Evertum—list, Surbot (Dencetre), S hr. 4 mm I sec., 2nd, Manayrel (Privat), 4 hr. 22 mm II sec., 2nd, Namezant (Panisth), 4 hr. 6 mm, 22 mm, 4th, Theori (Randon), 2 hr. Skelence-Int, Thornt, 5 250 km; 2nd Superport, 5 100 km; Altrody-Lu. Sixonest, 295 m; 2nd, Devempe, 267 m.;

engine. Decemps covered the same strend in as one as ore with a TES on, on, engine; while Europe took 20 mm. 30 no.

engine It has a span of 10 m, as overell length of 7 m

Founder of Underwriters' Laboratories Dies William Henry Mervill, Sounder President of Underwriters' Leberstones, Inc., died Manday, Sept. 17 at the Presistence

Both in Warney, New York, Dec. 20, 1865, Mr. Morrill profusion from the Manuschasters Leabhile of Technology in





Cal. Albert T. Padess, Clarests, W. Freely Corner, General Charmon, Joseph Publice, Monkey, Escoper



Army and Navy Entries in the Pulitzer Trophy Race

Races in the World to Compete

The work Politice Toople Ease, which will be held On. According to use land and from added in

I et 31 Loon, will be particularly interesting on overgonests. To loops with the two Story-Fright Eighten, but to the Wright Associations (Corp. for early by the Berne of Association (Loop for early by the Berne of Association (Loop for early by the Berne Association (Loop for early by the Berne of Association (Loop for early better to the Berne) power asyptams in the world, with the possible exception of the Fin Earlor, about which Diffe defents information in evaluation

streamlessing as one hand and from added horsepower on the other. Pollowing one the prencipal observations of the Army and Navy actions in the Pollowing Topics House The Navy-Weight Fighters. The Navy-Weight Fighters was produced by the Weight Assessmential Groun of Patternes, N. J. He when at Methol.



Navy Wight Eighter percent, each is 750 fey. Weight model 32 major, one of the four Navy retires in the Puller Rev. In this is Michael Field this idle covered a Teleforeter cover of on or word of 230 major.

authorize productions of the legisla and materials and a state of the legislar preting of the legislar preting of the legislar preyer with the legislar preyer with the legislar template the Newy tree. It the Paper ray, with the legislar template the Newy tree. It the Paper ray, with the legislar template the Newy tree. It the Paper ray, which is the legislar preting of the legislar preto

read materials through that it was to the order. These contents of the content

Oct for 3, 1923



The comparison over when all the Navy-Wright Fighter entered

I inklashed sufferently dene to sense that the ability out to happe reduce the most overce confinant.

The property of the property of the property of the sense of the property of the sense of the sen

of the wing surface type, on each side of the upper ways

water him vision the bugde in the busine who if the vision distribution that the control of the

to which some of the Curbon ruing grey color scheme adopted by the The Army Curtim Society

by 1022 Americanian Saturn are identical with these ends on 102 Americanian Saturn are that are of times in society of the property of the pro



-13 Fron F. B. Zery.

The Part of the State of the State

The Army Versille Seerry Rooer

directly in the wheels, whereby a lot of paracele programs

One of three BE severs was refereigned by the Air Servas Engineering Division, Alfred V. Verville in change, and re-In a first second test held at Matchel Field, Sept. 2, the re-

Nors-Weight TX ea, O. 2000 D. Liest. L. H. Sanderson (Marrie Corps) See, A. J. Williams (Nevy) Cartina DEE State of 10'0 10'0" 19'554" 145 mg 51 2007 lb. Licut. H. J. Brow (Navy) Licut. J. D. Conkille (Accept) Licut. J. D. Corkille (Acres) Licut. Welter Miller (Army)

Acres Verville-Sperry Curton DS2 Special 500 DSV" 20'0" 148.5 no. 42, 2473 tb. One of these meets in equipped with the Curtan DES, 465kp, engine, the same in used in last year's own.

AVIATION

CHARACTERISTICS OF ENTRIES FOR PELITISH TROPPIN

lot I year. The purel sections of the radiator are supported at love to the wing covering and amond through syspet at loved m the multiper punel. To support this type wind all considered of figure. This oil temperature permittee to

All place routesh are cable connected the same as on the the team on on the original \$55. As this fundam was cotalval This fact should be specified when companies the The Verville-Sperry most will be the only appealance.

of standard free on the Politics was unless the Post mass.



Front type of the modeled Vernille-Sperry Recer (500 by Cartan DI2 Special engine) extend by the Acres Air Survey on the Publish Rose

ARMY AIR SERVICE PILOTS

Ecent No. 3. Liberty Engine Builders Trophy Major Brewn was been in Messcapelar, Mass. He is a

Lentough Melay was born in Brokhw, N. Y., in 2005, and

Cupton Oldys was here in Weslengton, D. C. on 1800 and for Local Leavel II Smith well by a COS place. Leavenment Smith was here in 1993 at Santa Earhams, Calif.

errors for several years in connection with the establishment let Louis to him to the recent to the high a Lebber plane

Front No. 5. Marchants' Evolution of St. Louis

Field, Ve., will fly a Martin Booker plane Captess Block has been in command of the 80th long in Lord L. P. Areald will fix a Marke Bomber

became a monetype expert us hes father's office.

Joi Liver. New S Foreclaid will by a DEI plane.

structure. He was here at Billionham West. Limitered Proceedid into been on request pilot on the GAX gieplane which is called by there "The Berlie Ane."

Event No. 8. Politzer Traphy Rece Justeently of Googne before entering the service. He is at

Army and Navy Pilots in the St. Louis Races

(i) came is a Scientist'd word arrang rades and new String e sa 1977. Local Welter Matter will for a Curtum Raper Largermant Malley was born at Largerman, Mann, and attracked school in that state. He was in the Coast Arethery Event No. 84. John L. Mitchell Trenby

of Louis Thomas W. Stackbern will fly an MES plans. C .- Hill, Ark, and ottoriod wheel in Otlahom and Min-

C loys, safel a short time before the way tiving. He did his first officed fixing in 1986. The wark in the five 30, 1916, Landsmant Meteology and made a road

principal for two years. In addition to teachers, Laretonard

Changes in Army Entries I've to certain engreenes of the server, the Charl of Ac-

R. Schury, public Leavil H. W. Bortoc, afternate, XELA and places—Landie W. T. Leron, and V. J. Meloy, picto; Lincia, T. Wegner and E. Holtoman (O.E.C.) alternates, COJ pripages—Leavil, C. McKeller, and H. N. Honen, nicket, highers Lemm to McMaller and H N accomp passes, No. B Q Jaine, alternate, COS supplane. Leant, Leant H, So sh, pilot; Capt. Krusst Clark, alternate, Fackard Folder suplane...Copt. Robert (Edys, pilot, Cortiss D42 surplane... Leat W E. Basekey, pilot. Street No. 5-Large Capacity Airplaner: Martin Bombers-Coll. N. S. Sarrya Laures Arryanus Alleria P. Arnold, P. S. Gorge, pilote, Lovets H. D. Sarris, Ashroy Homby, S. C. F. Cole and J. F. Whitsey, Shemater, T. Loue, H. O. Crocker, pilot, and Laure G. H. Berrier, sherrate, DT1 as-



J. D. Crebde and Walter Miller, pdete, Licets. H. E. Mille and Laces V. Boss, Mr., Strongton. and Lacest V. Irons, 27; retrimine.
Errest V. Bro. 5m. Service type parent explaints (Mitchell Trephy). MES evolution—Limbs. T. W. Blackbern, T. K. Marthews, G. P. Tourfeller, Tank J. Johnson, Cupta. V. B. Dann and Herk E. Sheel, 2009. Leaves. Leibnd. C. Bindl.

to have different rates in in the appropriational races can't a ray for Mrs in catalogs new group. The above pulses also embraces the selection of pulses from personnel must be kept at the highest pitch regardless of the feasibility of assigning to puriorscale on the important event

Communder Mitteher was born Jan 26, 1967, Hillstorn,

Princeton, Plantington, entayalt duty. Danney war Novel Ace Statem, Mantank Point, L. I., N. Y., Epcharmay, L. L., N. Y. and Moon, Pla. In commend spotting agasdrogs Positio Plet for bee years. In command, Neval Air Hafton Ann-cotta, D. C. for my months in 1922. Now in Plant Devices ecotas, D. C., for my memory in 1922. Now in a new neuronal Barran of Aeronomies. Was in command of the term of



Bustawaia Echer is thety four years old and was been so

until September, 1912. He was transferred from U.S.S.

list of Navy points who took part in the Detsoil Air Regre-list Orthon. At present eleftened at the Naval Air Station Assemble D. C. The Italian Entrants Drack-Pape, Bedow Account former holder of the martin-

or the Franchesach head, however, for an Oct. 16, 1922, Frug Gen Was Michell, Assel Charl of the Daried Stores

(Prince) organized in Ruse Foods, the interacted are

Louiseased bryw man occu at Paid Miner, seems, ave. se, 2001. Hoise new at Percedence, B. I. In Naval Avastant more Apoll 6, 1917. Treased at Persagons, Fig. then on noted and materials of the all Missis. Fig. trained on recount

to the Nevel Air Station, American, D. C is April 1923.
This is insulate of the term of Nevy pilots that participated in the Detroit Room in the fall of 1923. No. Seem., 1869.—Non-stop Bard from Room to Puro., 1360 km with Radi may Mangel Many. 1939.—Rad Puro.

Two Itahen creck flors extend in the St. Louis Air Rossi-

Thus. It is worthy of note that Manghan astablished they

Brood of Altitude: 2000 notes. Forman 12 wile 70 has

Farmen 16 with 80 kp. Dellico water, 2015... Italian Secon Altitude with one passenger: \$150 m.

Maria Founds Grico and Brah-Props. They will ador

1003-Inbar

Brook-Pure has flown about 6000 times on an entirector

world's peeced of edutade in 1917, and in the 1600 ins. speed race woe in Sendo-Pyro in 7920. At the second raid "Star-

need, 1822, as an observer for Breeds Peon, he was for he

places the two Dalma flars will polet in the St. Lorin more. The Fast Co. precluyed in 1830 both a more and a long range day bounded 6520 with the Fast 500 by, cannot and ancorred for bounder 6520 with the Fast 500 by.

Huff-Daland Model TA6 Advanced Training Plane

Safety, Simplicity and Ease of Alignment and Assembly Chief Feature of New Plans



Two versus of the Half-Daland TA6 advanced training plans equipped took a 200 by Wright-Lawrence II radial seque

without the Police of Art There is a March Code of the Code of the

Not considered professional the general section is presented between a conversal and the difficulty of the constraints of the difficulty of the constraints of the difficulty of the constraints of the con

eegisis

in, and

in,

pour pai mini solution inferenti to depite e dei paire vince.

Form front and rose of with toolity filtering is liberover.

Form front and rose of with toolity filtering is liberover.

Interes in remarkably simple and find proof solution in the contract of the filtering in the filtering of the filtering in the filtering in the filtering of the filtering in the

Sarine North Lawrence 25, 500 feet Supply of the Sarine Super wing 50 feet in Laboratory and 10 feet in Laboratory and 10

A New Powerplant Weight Model TJ Avades Engine The Witteld Madel TJ congress represents the latest decolor

and in a further development of the Weight VI engages which were produced by the VI of the VI of the VI of the Tricks, with replaced 50% in 2.0% in, which gives a displacement of 1007 on. The singless has two power recognition of the VI of the VI of the VI of the VI of the value of the VI of the VI of the VI of the VI of the value of the VI of the VI of the VI of the VI of the value of the VI of the VI of the VI of the VI of the value of the VI of the VI of the VI of the VI of the value of the VI of the value of the VI of the value of the VI of the value of the VI of the value of the VI of the



....

000

Carabell beauty exceedy of the Wingle T3 capes that it was now possible, after approximately see your

and descriptment, work, to heard as more effected and defined. The TT define roses the TT in 4 does day, the low- and the term interest by a superced states come, matter control the control by a superced states come, matter control theorems also have several to a state() received, the control that the term of the control that the characters care. She the TT is provided by certain disasses Maximum monotomer in sperifical has here so-role by a Maximum control to the term of the term of the contraction, as well as superced meta-ratios. Whatever, TT has not engine in reliable for not tay type of place and usual arrived decreases, neglect with the childry to war and usual arrived decreases, neglect with the childry to war which to be the term of the term of the term of the term and usual arrived decreases, neglect with the childry to war which to be the term of the term of the term of the term of the has been approximately as the term of the term of the term of the state of the term of

Real Commercial Aviation
Fight Proper Greed by As
On Prober, Seed, M. at majorett W. L. Smith test off in a

suchine from Van Courthardt Pack, currying, of the incodes and other proteoms of the fight life served Chreshad and Chanige and arith derived the served Chreshad and Chanige and arith derived in a representative of the News Edition of Chanies, who had these obsard a special rose packed, but the obsard to special rose packed for Character, when Koundth Dares, and the Chanies, when Koundth Dares and Chanies, and the State Chip of the Chanies, when Koundth Dares and the Chanies and the Chanie

intel delivery line across the material forty-size and a half local.

This quick service made it possible for the Newsquer Enterprise Association is series for papers for shear of all competitive. They required a econy of the bours of Chrisland, Chrispy and Occale, and a couch larger time in the part of the contract of the contract of the country of the contract of the contract of the contract of the country of the contract of the contract of the country of the theory of the contract of the contract of the country of the country of the contract of the contract of the country of the country of the contract of the contract of the country of th Petrovers in a list of the world's official services records

Hobby United States Louiz, Oakley G. Kally and John A. Macrosly, A.S. on U. S. Army-Pridge T2 1400 ho, Liber-

(Ose-lolometer course)

Molder United States - Levit, Basell L. Menghen, A.S. Ot Amp-Carles racer (66) by Option D521 at William Works Field, Daylon, Gleen, March 29, 2923 - Annord.

"The Part, St. 1977, at Tillerschier, France, Sant Locality, Smithell, at



Out at the three Acomp Curine Recent (465 has Curine D12) entered in the Air Service in the Publish Traples race. If nonon the slips that Level R. L. Merchan, A.S. established the princip metal's resorbs for maximum speed and speed are:
100 by and 200 by distances.

Habler Duted Stater-Loui Small L. Monghan, A.S. St. Amp Carton racer (465 by, Carton Diff. at Soft-in-

Moder - Dwood States -- Livet, Alexandre Pramus, A.S. on SPEED DVER 1000 KM. DISTANCE

High, Dayton, Chen, March 20, 1825 — Beauty) at McCook (137.5 mt/dr)

DRIG (400 by Liberty), at McCock Fadil, Dayton, Co., March 26, 1923 — Record 256 07 km /hr (1563 ma/hr.) SPEED OVER 2000 KM DISTANCE DESER. (400 bp Liberty) at McClock Field, Dayton, Gico, April 17, 1983 - Sweep 253.53 km /hr, 6214 ma.thr.)

SPEED DVER 2500 KM, DISTANCE Holder, Durat States-Lands, Galdey G. Kelly and John

SPEED DVER 3000 KM, DISTANCE A Macrosly, A.S. on U. S. Assay-Boldon TS (400 kg, Leverty) at Willer Wrant Pools, Davis, Ohio, Assay 30.17

A. Mocrosdy, A.S. on U. S. Amur-Yolkar T2 (400 kp. Lin-gra) at William Weight Field, Dayton, Chen, April 16-17,

(D) 1,500 kg. Useful Load

LISEFUL LOAD CARRYING FOR DURATION tielder: Greet British.-Cast. C. T. B. Hell on Headler. Pr. WE (two 456 kp. Naguer Lieu engenes) at Crecklescod, in lead May 4, 1909 - Brown J Sr. 19 mag.

... Cor. France...Jose Carale on Skings-Spad (400 has

(C) 1,000 kg. Useful Lead Notice France - Jean Camin on Blicke S45 (four \$50 kg. To no date a capacity at Ber, France, Jane 3, 1982-En lend, May 4, 1995 - Bycond: 6,267 m (26,002 ft.)

The First 700 has Placer mirch Break Press flow in the 2027

Is This It?

British Warship Bombine Tests

Bonking tests with the old Birtish bettledep Agreement. steered hy radio, now recently conducted in the firm Ass The ship, moving at 14 houts was put not of a task ten fell within 25 ft. of the venet. British experts connder

Program of Second National Air Institute

The Second National Air Speciate of the Arresented notices of Postsheet Cardalpr's retract-the Postsheeter from recently devocatested successfully between Chicago and Cherman, to other posts of the country Reduct Horsey, Secretary of Consesses, his remarks a The paper presented by H. C. Walkers, incentary of hornidates, well be of greet superinces, as an department. To Habert Work, Secretary of the Literax, was Post-secret-Second Wina Colonel Renderson obtained nothing

Berner of Mines, the Submand rare cryo-meetics with red transportation in Alaska cust, first as coursely to accelerate benking and finance visary Connellor for Asympation postcial avuitan for reserves to production facilities and conde J. C. Hannaler, Charl of Desga, Naval Barran as exceptified by the ESI and by the ESI, which is to be flows from Germany to the United States, into the Call St. Loan, an officer of the Federal Stoores Protess, will The redways' attends toward aviation will be discussed by

Gothenburg International Aeronautical Exposition Several New Types of Military and Commercial Planes price. The same is an 60 kg. I-od agreeded Summy-

DHS0 Commercial Airplane

The CLERN a larger oblice of the above true, earning

the functions to, a streetage of sized takes, which store early

a 50 by Services capter, such the attention appears with a TB by Garce capture, which was no self-design, and to Nichtentio North model ES simultanester most almost filled with a 20 lot Honde engine. The machine was born-before at the Erreice plane. New Fakher Pursuit Plane

Netherlands Account Works, which calabled two complete

appliance. The engine is a Holle-Royce "Engle" 370 kg., was Loubbe reductors. The pilot's cockpet tests two men

Interesting Czechoslovak Planes shell - of sems-confilerer type, the ringle pair of interplana-iests reasy placed about held way along the span, feeting

words couple, 2420 lb., weight, headed, 3060 lb.; speed, 165 to fire respe. 760 mir ordinar, \$1,000 tt. The ship, as used cal a scotler bottom wing. The families is of webled steel the contractom with fabric occur. The engine is a 186 by Flying Computations
Down the Orthenburg Expension vancous from com-

the Dyne's Right Dodges.

Series Works, on a Febber Ci, with tild by Naper "Lon" "The and myleth, Level, E. Kjellgree, of the Swedish army.

New French Flying Boat

form from any place distinct sacre than 200 km. This event Socials arrestl appeared for the first time at an inter-action! expension, in distributory. The Swedish army so-tion; I there mindries, one, a small transfer believe from ten von h. Pine toccam os me Dino.

In the Dyne achdelens open to government machines, squadrons of British, Dunsh, Dutch, French, and Swedyk-leed machines and registers protosperiod The Dutch formation. con - I m cheefy notable for furthe-tapening wings, like the tion parasis and the French "Bufffach." That is, the there yes the part of the pant of attachment of the rand

executions. Contestants had to arrive at Gotherhouse



The served gross was setted and of a record serial using at the Area Chit of Proper The containing first ever a second

This Department is exercised trule all civil flying activities such as the establishment of errors, the structure, experiences gathered on figure rootes and names and propose flow. So terrorition of new eight

that it project itself against my perception of attack or

Coulsides and each Blanca sensior and representative from Course district."

According to El California of Boston Uty, Aug. 14, 8 ontrast priviling to passenger and trought serves by ser-vices has been served by the Memory of War with the

New Air Line in Mayico.

A Strong Resolution

Communications to this offect, addressed "Airways sterolutum. While disprises and from arthetics will also be welcomed from Counds, Mexics and offer norty of the Western Harmythern Prevon

AIRPORTS AND AIRWAYS

ews photos of the Dompory Furpe fight. Black helt have

a "Himo" Standard.

Pilet Schooler, in company with a friend, left Aultura Airelance at the Police Garnes.

formation by Pilote C S. Jones, MacMolles and Sharpe, and the Stavening Corp. of America an \$855. None of thes

suffered a broken most and reternal regarded, but as expected

On Saturday Sept. 5 there was a meeting of the Record

Carried on local redding sources, and what the resure

New Air Line in Columbia At expanses of six transport activities in reported from the licential of Colombas, where the SCADTA operator, as he liqueno of Caleman, were no country special to be in the law as the liqueno and the law as the law as the Carlegen Carraquell directly Nov. The law as

Allough some of the correction models entirely forther first over this competition need to be that although much

per librar competition held last sporns up France, which the Support Asina to redexed with 15,000 france of process

the posterior serve.

- year personal - Sarfare area, 45 as m., solutional

r prevente-Sylection shape, of rotice fabrue, with 16 5- or parachate—Spherical shape persebute of cotton

Tive namehotes had to satisfy the following parameters

Toro of opening. Man, 19 me (Freedoor), man, 48 sec.

French Air Mall Bates

Italian Helicopter Competition

New German Aircraft Engines.

Several new German acrounds supraga have recently been

the Rowsler Bo, the Curt monogram and the number two-course loplane. The Etseche firm is new experienced with

of exhibitors at the Bayt Style.

The Nomers & Hillin Ca of Bayles also produces reduct
acrossed styles. Be for two models have been preduced,
one a 5-old 10 kp type, and the other a T-old 10 kp type.

The R M W. Co. has hepophy out a new, assesshed residen. The how we can have account out a serie, assertion model of its well-known then werter! regran, which has the

test the engine an owner of test at most pers, up, a consumption of only 150 g/hp/ hr. Bostonick at this gas gas at of the military super-congressed type, which the

The Riches Are Department has invited Below approach

Total weight, 1600 kg, including 110 kg unrist head; power clust to council of a 220 kg assurence years of 22 kg assurence years.

The Air Department will pay the runs of 250-260 less to the

As air convention between France and Conductorsion has number in repeat to communic of personnel and purchase of numbers, and appearably excludes Germany from Conductor

A pental perform weighing 5 kg and sent to real-ray mail from Paris to Residua, code a fraction cost 6 fraces and requires 56 for as defence. By plane is even 9 fraces and is delivered in 6 for. Per Association a package of 1 kg kr.

rail costs NAS france, and taken 50 hr., by plane if costs 5.50 frances and in delected in 7 kg.

New Aviation Convention

U. S. ARMY AND NAVY AIR FORCES U. S. ARMY AIR SERVICE Kelly Field Pilets Givs. Aerial Demonstration. National Guard Squadren Efficient

The maneurer consisted of an offender movement around

All types of peckless were flows, necksdarg Refinity, ou-tast. Affiliary adjustment, mayoriflator, bombane, attack, ex-War College Students Visit Aberdeen

notes from a derivation of three NHSS sirpleses was also gives. As a constanting demonstration a night fight was node for the dockarge of force from a DH 6D at an akrosis Duration Record for the Hawaiian Islands

Reserve Officers Complete Training

Validad Man Perform Manole Feat

sent of a well be as time-of in hoped by next spring.
"The will not only be employed as a Narral round, but date ire personnel or the Army. or the 5th Observation Scanding business cracks for when the

U. S. NAVAL AVIATION country of the Navy Dashy, commerciar on the record

Success of the Airship ZRI

or the Corps of Naval Constructors, and in new broug flows "The development of the read surden as a first wood for

if the saverest current, the tarpedo plans and the honder.
The Zill wil spon the recopiesco of her train be up-

"In consection with these true flights, it is of expectal in front to note that the Navy Department is Washington was it contant commencement with the EEI by realist filer is constant remembers, with the ARL by reme ther

Near Admiral Withou A. Mollett, Charl of the Sereon of Arrangement of the Navy Department, made the following

being under flight training with hat a handful of planet Navy Dortors Watch Candition of Stines A daily medical importain to determine the firem of A daily needed imposture to determine the fixed or cludest eared southern for flying dalain has been insidered at the Newd Air Statum at Personnia, Fig. One modical officer

The oursess of the slep to date is a framph for American

to the principal cities of the East, and later, near cotanded fights, and then, if precisable, a flight to the North Pole

The first most of the recovery has been carried and and the

has been assigned to every flying beach at the station, to unprint is perceited to fly who is not in good health. This precustice will do much to elements all dangers that might sense chalice wil do much to elements all dange to the armiter through their own condition Naval Air Station, San Dingo

Reserve Station at Fart Hamilton The Narat Reservo Air Station at Fort Hamilton, Scools

The Naval Air Station at San Dasgo, Calef., gover a tracket on Style 12 to the Lengue of California Manuscipalities obach met at Corygado, Calif., danies the week of Sect 10. wanter of bettles between bronzy from the Naval Arr Station

COMING AERONAUTICAL EVENTS

Ort. 1-3 - National Adoption Roses, St. Loois, Ma. Late Fall - Curtin Massa Physic Trophy Rose

Sept. 28 Schmeler Meriting Ayaron, Trophy Rice, Course, Ide of Works, Farbard

Ont. 14 - Bammont Cup Race, Intrus. France

Air Service Progress in Hawaii

FLY THEM YOURSELF PARKET ASSESSED COMPANY, Date of the Parket Date of the Parket Date of the Parket Date of the Date of

O. Labor 1, 1922 October 1, 1029

OREAT LAKES AVIATION COMPANY OF Malery Zulleing

Thereas Taking the first feet field in August Transact Paris Company of the Compa PARTRIDGE, Inc.

Directly Oce of the houses and here consequed flying fields KOKOMO AVIATION CORP.

Layer Field, S miles 3: E. of Eubinee AMERICAN AMERAST ber Station F. Res 1994, Palemane, Md

ROBERTSON AIRCRAFT CORPORATION Archero, Motor Paris Supplier, Shape and Managers

ARGUNE MO LEARN ON AVRO and Ditte. THE CHAMPERLIN AMERICA OF CO.

As Jones Bedered Ho, See Sens

CURTISS AEROPLANE & MOTOR CORPORATION

DAYTON OHIO AMENON AMPLANT & REPPLY CO.

WARREST WISCONSIS ASSOCIATES CO. FLYING SCHOOL

700

Limousine of the Air BUILT for codurance, equipped for comfort, this new Lincoln-Standard reasonages plane is powerful, specify and safe.

For a theiling quick flight or for a powerty where long numered speed is of paramount importance the LSs is resulty using. I us uriously upholossed in marcon colored leather, the fose place cockyle to trees and senset. And as a protection accepts the listing words of the higher aktitudes, the semi-enclosed ply wood frame arm over the heads of the passeagers.

Naturally this plane is Valiparred. All the wood were of the interior are protected with Valspor vernish and the masses of the erector is made hustrous and enduring by the same uncommunable finish. There is no versuch that can equal the dambdes and because of Valorer, Wind or weather, gas or oil-cassess have a Valorered



VALENTINE & COMPANY, New York, Change, Bosson,

REPORT DANGERS TO SERVICE BY THE CASE OF THE COLUMN TWO IS NOT THE OWNER.

The plongraph show the sacing and the sales

Marine Corps Planes to Fly from Haiti Two I SMC plane, mixed respectively by her hand

Outro to Office

430 5 Michagon Ave. ALL TYPES OF CURING PLANCE

School of Commercial Asiation Land or Weber

WHITE BEAR LAKE, MINN

October 1, 1993



Skywriting is operated exclusively in the United States by THE

SKYWEPTING CORPORATION OF AMERICA

who have ourchased all U. S. letters rotent and pending eatent applications issued to, or owned, or filed by Major J. C. Savage

The season of forming Merre or western

THE SEVERITORS CORPORATION OF AMERICA

sion's friends constantly work to improve metals, some are busy with allows, woods, fiber compositions, fabrics and other essential materials. Conduce is concerned with rubber

serial transportation and defense.

The help of these eager concurrs

and individuals enables American

"shins" and pilots to keen noce with

those of other lands. Some of svis-

and rubber-impregnated fabrics. More than that, too, for many valuable designs for mechanical parts of Robert than air craft originated at Goodyear. For the airplane, Goodyear provides all required types of subber equipment from tires to endiator hore

GOODFYEAR AVIATION FOLIPMENT

THE DOUGLAS COMPANY Santa Monica, California

Designers and Builders of The Famous DT-2 Torpedo Planes

The Air Service World Cruisers The Douglas Air Transport

The World's Most Efficient Weight Carrying Airplanes Contractors to the United States Government



LOOK FOR THEM AT ST. LOUIS!

The fourt tendertons of the

- (1) WORLD'S RECORD NON-STOP TRANS-CONTINENTAL TRANSPORT (T-2)
- (9) A EDIAL AMBUILANCE (3) GREATEST FIGHTING PURSUIT
- (4) SPORTSMANS CHUMMY

(8) OBSERVATION PLANE NOTE IT IS THE KNOWN FIRSE THAT FORKER DESIGN IS ALWAYS

A STEP AHEAD, THAT LEADS THE U. S. AND MANY

NETHERLANDS AIRCRAFT MFG. COMPANY

AMSTERDAM, HOLLAND

October 2, 1803

AVIATION

October 1-8-15-22

covering the INTERNATIONAL AIR RACES AND AERO CONGRESS AT ST. LOUIS, OCTOBER 1, 2, 3

Last year the Special Detroit Race Meet Numbers were sold out within the week of publication although we pented large extra editions. None of these issues are now available at any price. Why? Because AVIATION is the only weekly aeronautical publication and its news stones and technical notes are written by a staff trained to the aeronautical point of view. Learn for yourself that AVIATION always contains the most timely, interesting and accurate accounts of aeronautical events throughout the world.

If you are not a proular reader send in your subscription order at once to insure recriving the SPECIAL ST. LOUIS ISSUES-Announcement Number, October 1: Race News Number, October 8: Technical Number, October 15: Air Convention Number, October 22.

225 4th Ave., New York	
V	

Stromberg Carburetors

Used on all American entries in Pulitzer Trophy. Used on all American entries for Schneider Cup. Used on the ZR 1. Used in making the American Altitude Record and World's Speed Record.

Over 135 Passenger Car & Truck Manufacturers use Stromberg Carburetors as Standard Equipment Stromberg Motor Devices Co., Chicago, U.S.A.

Text Book of Aeronautical Engineering

In two parts-309 Pages-146 Illustrations

Versions in Positic and Play Form at Wing Services

Camifronia of Main Data for Motors Aspines, Coursed Land Land Purson Machine Land Con-Corying Machines Vera-Raginal Type Sharehan of Commits Design Marking - General Pointing at Secretary Training Marking - General Pointing at Secretary Design.

Price, Postpaid, in the United States: 25.00 Net, other Countries 55.25 Postpaid

GARDNER, MOFFAT CO., Inc. 225 FOURTH AVE.

NEW YORK



ETABLISSEMENTS LAMBLIN 36. Boulevard Bourdon, Neuilly-sur-Seine

Loening Aeronautical Engineering Corporation

31st Senset and Fast Roye, New York City



INDEX TO ADVERTISERS

Lambia Emblumments ...

Extinors, John A., Sear Co.

Brice, Matthew B.

Thorn-Mone Amends Corp ... 380 Stone Inc. 60

Versit, Chean, Corp. 366

Recit Aerosantical Corp . 566

ORDER FROM JOHNSON'S And Avoid Delay Aeronautical

> Supplies and Equipment Write for Our Catalog

Johnson Airplane Dayton Supply Co. The "Original Agreementical Sapply House"

You Need These Aeronautical Books

Airplane Engine Encyclopedia ny Carry D. Avery ... \$7.50

Text Book of Aeronautical Engineering for Ligury, A. Klassin — \$5.00 in U. S. Aircraft Year Book for 1923

A.C.C -\$4.75 Aeronautical Rule Book Who's Who in Am. Accompation Camputa Morray Co - \$1.00

Sent post poid upon receipt of check or

The Gardner, Moffat Co.

W/ITH a new spacially constructed factory, completely equipped, operated by a highly trained and skelled nemonated the retranslation has admit [activities and a wealth of expensace for handling the important experimental development work required to maintain for the United States on leadership in proposition. CARLE ADDRESS "MONOPLANE" NEW YORK

Used on more than 10,002 Aircraft. Fitted to the Security of the Anthony -Course Gordon Bennet 2 Course Davids Palace Course to Research To World's Special Revised, The Annual Lovy The Deviseds Course of Palacet Special Special Course of Palacet Special Special Course of Palacet Special Course of Palacet Special Course of Palacet Special Course Special C

core the world

Speed & Drift Indicator

PIONEER INSTRUMENT COMPANY
MAIN OFFICE AND PACTORY BROOKLIN IN Y
10000000000 PT PROMOTE ROOM. BAN COMPANY

WRITE FOR OUR
SPECIAL PRICE LIST
CANUCK AND OX-5 PARTS

GRIGGON AIRCRAFT LIMITED

LIBERS ST., MAIN TORONTO, CAMADA

LUDINGTON EXHIBITION COMPANY

Stood Farman Shan

Office 460 Wideow Bile. Phile from 64d of G. S. Indeed PREADELPHIA. P. Phile VALLEY, R. J. NEW STANDARD J-I AIRPLANES Hispano-Suitza, Curkiss, Lawrance Engines for Insuland J-1 Way files Complete 2025 (2018 Core

EDWARD P. WARNER
Consistent in Aeronastical Engineering
Conservation of Aircraft.

Mass. Institute of Technology
Cambridge, Mass.

FIVE-PASSENGER BREGUETS
Laming from the Committee of the Com

Landing Sport for Main are been first flows the United Land 1919 Adds College such Land against Fig. 6th champaches and 1919 Adds College such Land and against Fig. 6th champaches The Construction of the College Sport of the Construction of the College Sport of the College Sport

ONE DOLLAR
For heastful pair of storling silver wings
mesented on a silver pair, or on har pin with
with taken and address. Pay the mesteres,
with name and address. Pay the mesteres.

SIMPLICITY

is an airplane in visal, for the comment between at strengt and extensive and extensive

Exceptional Quality in material, workmanable and design.

THE G & O MANUFACTURING CO.

MATTHEW B. SELLERS
Consulting Aeronautical Engineer
Archivom-Huston N. Y.

SVA'S FOR SALE

New Ships, two-seaters,
with 220 SPA Motors.

PARAGON PROPELLERS

American Propeller & MFg. Co.
Baltimere, Maryland
WANTED TO EXCHANGE

WANTED TO EXCHANGE

Challes touring 55 no winderful evolution for January or
Standard. Cur funds body administrations, body and funders
black. Photograph of the car on application to

F. CARLESEN, WALLACK FIRED.

SERBAN CAN PAIR GOV HERMAN AND AND AND THE PAIR OF THE

AERONAUTICAL PHOTOGRAPHS FOR SALE
These desires; photographs of any phase of satisfase
the Used States, airplanes, assessmeltal accessories,
where, etc. can procure these on request at moderate sale

AVIATION Readers Encircle the World

The following letter has been received from Canton, China. It is typical of many that are received from readers throughout the world and shows how underpenable AVIA/TON is if a complete picture of the progress of American

acronautics is desired.

"Exclused place feel to shallow for which place more up admirition to AVIA-TION. In the court they place feel to which place more up admirition to AVIA-TION. In the court they note of normalized conting the supposes to my all admirphose of needle and use the copies I have mixed: AVIATION has been my pushed analysis; must be guarantied usly at 1/10, as production manager of — Weekl

embour's serie the guarantar days of "10, as production manager of — Worksholding applicate descript the series has been failed undergot at a vision of the Architecture of the Architectu

Are You a regular Subscalar 2 AVIATION at Four Deline a year (Canada 35.00 Feetings 56.00) brings to you every work the latter arens and developments in American auromatics.

The GARDNER, MOFFAT CO., Inc.

do you know that

is the only American corresponded tweetly and
the object corresponded publication is America
US SAME CAMADA SAME POSSESS SAME
JOHN A. Roebling's Sons Company

CLASSIFIED ADVERTISING

ILBERTY DO FEY-LIE AN AVIANTIE Convolution and including the cloth for table in the cloth of the

DOPES
PIGMENTED DOPES
VARNISHES ENAMELS
TITANINE

TITANINE, Inc.



NAVY CURTISS RACER

- In 1909 Glenn H. Curtiss won the Gordon Bennett Race, the French speed classic. Since that date the Curtiss organization has led the world in the design and construction of aeroplanes and motors.
- In 1921 the Navy Curtiss Racer with a Curtiss motor won the Pulitzer Race at Omaha and established the world's speed record.
- In 1922 in the Pulitzer Race at Detroit the Army Curtiss Racers with Curtiss motors took first and second places, and the Navy Curtiss planes (of 1921) took third and fourth places, again establishing world's speed records for the various distances covered.
- In 1923 the Navy Curtiss Racers with Curtiss motors are still faster.

In military aviation Curtiss is unexcelled. The Army Curtiss Pursuit Ship is the fastest fighting plane in the world.



STANDS FOR SPEED WITH SAFETY

CURTISS AEROPLANE & MOTOR COMPANY, Inc. Garden City, N. Y. Buffalo, N. Y.

